

Abstract

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A spanning or beam member for use in construction having a pair of opposing C-shaped flanges and a corrugated web. Laterally extended protrusions of the web strengthens the beam member by stiffening the web and increasing the load bearing forces that may be carried by the beam member without crushing. The C-shape of the flanges allows welding of the flanges to the protrusions of the web to reduce the unbraced and unstiffened size of the compression elements to allow for construction of beam members of a given strength out of thinner sheet material. An end plate secures to the opposing flanges and to the corrugated web interposed therebetween, providing a superior means for interconnecting the beam members.

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